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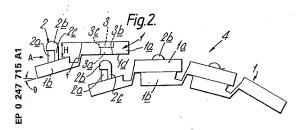
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- Watch band.
- ② A vatch band (4) having a plurality of separate parts (1) which are linked successively to each other characterised in that each said part (1) is provided with at least one hole (3) and at least one projection (2) each said projection (2) being mounted in and retained or releasably retained in a said hole (3) in an adjacent part (1).



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"WATCH BAND"

This invention concerns a watch band end, although the Invention is not so restricted, it relates more particularly to a watch band made of a plastics material.

Watch bands known to the Applicants which have been made from pleatics material have involved injection moutding an elastomer such, for exemple, as an uretinane reals. Such watch bands have therefore provided little scope for design variations by way of variations in colour because it has been necessary to make the entire watch band in one single colour. Furthermore, the design of projections and recesses in the watch band has had to be limited to those which could be formed by higherton moutding.

According therefore to the present invention, there is provided a watch band having a plurality of separate parts which are linked successively to each other characterised in that each ead part is provided with at least one hole and at least one projection, each said projection being mounted in and retained or releasably retained in a said hole in an adiacent part.

Thus, in contrast to previous suggestions, a watch bend according to the present invention per-

mits wide variations in design.

Each said part is preferably made of a flexible

material such, for example, as a polyacetal resin. Each said part may have a first portion provided with the hole or holes and a second portion provided with the projection or projections, the first and second portions being speced from each other.

The first and second portions are preferably interconnected by a third portion whose thickness is substantially less than that of either of the first and second portions.

The first and second portions may be vertically offset with respect to each other, e.g. by a distance which is at least as great as the thickness of the first portion.

Moreover, the first and second portions may be planar members which are at an angle to each

Each projection may have a head which projects outwardly of a stem portion of the profection, each hole having a constricted portion such this time head of the respective projection may be forced through the constricted portion to a position in which it is retained by the latter. Thus, each, projection may have an undercut portion which provides the projection with its stem portion, the undercut portion having been formed by a component of a siding moutd. The invention also comprises a watch band part for use in a watch band as set forth above, characterised in that the said part is provided with at least one hole and with at least one projection which may be introduced lato and retained in a hole of a like part.

The invention is illustrated, merely by way of example, in the accompanying drawings, in which:

Figure 1 is a perspective view of a watch band part forming part of a watch band according to the present invention,

Figure 2 is a side elevational view of a watch band made up of parts as shown in Figure 1,

Figure 3(a) is a plan view of a projection forming part of the watch band part of Figure 1, and

Figure 3(b) is a plan view of a hole in the watch band part shown in Figure 1.

Referring, to the drawings, a watch band 4 is made up of a plurality of separate parts 1 which are linked successively to each other, each of the separate parts 1 being similar to the others. Each of the separate parts 1 is made of fischibe material. Thus each part 1 may be an integral moutling of a hard plastics material such, for example, as a polyacistal realn which will have suitable flexibility

for use in a watch band. Each of the separate parts 1 has a first planar portion or upper portion 1g which is provided with three holes 3 which are aligned with each other and which extend completely through the first planar portion 1a. Each of the parts 1 also has a second planar portion, or lower portion, 1b each of which is provided with three projections 2. Each projection 2 is mounted in and retained in, or releasably retained in, a hole 3 in an adjacent part 1, as will be appreciated from what is shown in Figure 2. The first and second planar portions 1a, 1b are interconnected by a third portion 1c whose thickness t is substantially less than that of either the first planar portion 1a or the second planar portion 1b. Moreover, the first and second planar portions 1a, 1b are vertically offset from each other by a distance H which is at least as great (or, as shown in Figure 2, is greater than) the thickness of the first planar portion 1a. Furthermore, the first and second planar portions 1a, 1b are at an angle # to each other. Thus the arrangement is such that each successive part 1 is tangential to a common circle corresponding to the wrist of a user, while the provision of the third portion 1c, which is very thin relative to the first and second planar portions 1a, 1b, enables these two planar portions 1a, 1b effectively to be hinged to each other even if the

part 1 is made of a hard plastics material such as, for example, a polyacetal resin, Even in that case, the watch band will have the necessary degree of flexibility for its purpose.

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Furthermore, the fact that the first and second planar portions 1s. 1b are vertically offcet from each other by the distance N and that they are angularly offset from each other by the engle 6, enables the vertical band to be made of substantially uniform radial thickness throughout most of the width, and enables it to be curred to a subside degree even prior to being put on the wist of a

Each of the projections 2 of each of the parts 1 has a head 29 which projects outwardly of a stem portion 25 of the projection 2, the stem portion 25 being provided by reason of providing the projection 2 with an underect portion 2. The underect portion 2 as The underect portion 2 as The underect portion 2 as the context portion 28 extends from the second planer portion the anti throughout substantially worklinks of the height of a hole 3. The underect portion 26 is preferably formed by a component of a sliding mould (not shown) which may slide in the direction

Each head 2b has a part-spherical shape to assist its introduction into the respective hole 3. As indicated in Figure 2, the head 2b is forced from below into the respective hole 3.

Each hole 3, as will be seen from Figure 2, it à through-hole and has three portions 8a, 3b, and 3c. The lowermost portion 8a is first-b-coniceil in shape and tapers upwardly, the diameter of the portion 8a adjecent the lower eurizou 1g of the planse perfort 1g. being equal to or slightly greater than the maximum diameter of the port-spherical head 2b. This enables the head 2b to be readily introduced into the portion 3b.

As best seen in Figure 3(b), the middle portion 3g, and that the disarreir of the cut-energy circular shape soil that the disarreir of the cut-energy portion is a little greater than the minimum diameter of the undercut portion 2g of the projection 2. The upper portion 2g of each hole 3 has a circular shape in cross-section, the diameter of the portion 3g being somewhat greater than the maximum diemeter of the parts-checked head 2g.

the part-operation invest of the head 2b of a projection 2 is Introduced from below into the portion 3g of the hole 3, it can be forced through the constitution provided by the portion 3b wift the partially catheraly circular shape so that thereafter the head 2b is located in the portion 3g and is normally prevented by the portion 3g from being pulled back through the hole 3. Nevertheless, the meterial of the part 1 may be such as to permit withdrawed of the part 1 may be such as to permit withdrawed or the head 2b from the hole 3 it a sufficiently strong pull on the projection 2 is effection.

As will be seen from Figure 2, when the first planar profin 1 g of one part 1 is sealed on the second planar portion 1 b of an adjacent part 1, the lead 2b protudes above the upper surface of the intert planar portion 1 g, in this position, the underest portion 2g of the projection 2g and the cut-wavey circular shape of the portion 3b of the hole 3 are in engagement with each other with an interference which is produced by the difference in their respective diameters.

As will be appreciated, the provision of the undercut portion 2g of each projection 2 facilitates the assembly and disassembly of the projection 2 in the hole 3.

The watch band of the present invention may be constituted by perts 1 whose colours differ from each other and this permis considerable variation in the design of the watch band. Thus each part 1 may have a different colour from any of the other parts 1. The construction of the present invention, indeed, permits considerable variation in design.

Although the part 1 is shown in the drawlings as having three holes 3 and three projections 2. In shape and the number of the projections 2 and of the holes 3 can be varied considerably and this too permits a wide variety of different designs to be adopted.

The watch band of the present thrention is thus particularly suitable for use with parts made of plastics material and thus permits a ready change in the colours and stades of colour that can be given to the various parts 1 and the shape and the number of the projections 2 and holes 3 has however the projections 2 and holes 3 has proviously are needly be obtained.

The adjustment of the length of the band to the wrist of the user can also readily be effected by increasing or decreasing the number of parts 1 which are to be connected together.

Claims

1. A watch bend (4) having a plurality of separate parts (1) which are linked successively to each other characterised in that each said part (1) is provided with at least one hole (3) and at least one projection (2), each said projection (2) being mounted in and retained or releaseby retained in a said hole (3) in an adjectory that (1).

A watch band as claimed in claim 1 characterised in that each said part (1) is made of flexible material.

3. A watch band as claimed in claim 1 or 2 characterised in that each said part (1) has a first portion (1a) provided with the hole or holes (3) and

a second portion (1b) provided with the projection or projections (1 b), the first and second portions (1a, 1b) being spaced from each other.

4. A watch band as claimed in claim 3 characterised in that the first and second portions (1a, 1b) are interconnected by a third portion (1c) whose thickness (t) is substantially less than that of either of the first and second portions (1a, 1b).

5 A watch band as claimed in claim 3 or 4 characterised in that the first and second portions (1a, 1b) are vertically offset with respect to each

6. A watch band as claimed in claim 5 characterised in that the first and second portions (1a, 1b) are vertically offset from each other by a distance (H) which is at least as great as the thickness of the first portion (1a).

7. A watch band as claimed in any of claims 3-6 characterised in that the first and second portions (1g. 1b) are planar members which are at an angle (e) to each other.

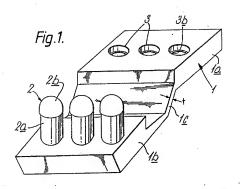
8. A watch band as claimed in any precading claim characterised in that such projection (2) has a head (2b) which projects outwardly of a stam portion (2c) of the projection (2), each hole (3) inawing a constituted profine (8b) such that the head (2b) of the respective projection (2) may be forced through the constituted portion (3b) to a position in which it is restained by the latter.

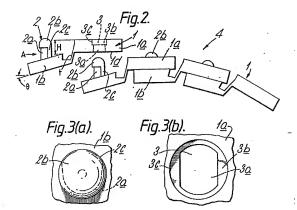
9. A watch band as claimed in claim 8 characterised in that each projection (2) has an undercut portion (2a) which provides the projection (2w ith its stem portion (2c), the undercut portion having been formed by a component of a stiding mould.

10. A watch band part for use in a watch band as clarmed in any preceding claim characterised in that the said part (1) is provided with at least one hole (3) and with at least one projection (2) which may be introduced into and retained or releasably retained in a hole (3) of a like part (1).

11. A watch band made of a plastics material, characterized in that band places (1) each having an engaging projection (2) and an engaging hole (3) are linked successively to each other to form a band body.







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DOCUMENTS CONSIDERED TO BE RELEVANT					ļ		
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